## (19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 13 January 2005 (13.01.2005)

PCT

### (10) International Publication Number WO 2005/004111 A1

(51) International Patent Classification7: 11/02, G01C 21/36

G10L 15/22,

(21) International Application Number:

PCT/EP2004/007115

(22) International Filing Date: 30 June 2004 (30.06.2004)

(25) Filing Language: English

(26) Publication Language:

English

(30) Priority Data: 03014845.6

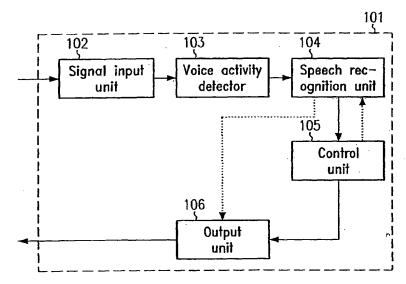
30 June 2003 (30.06.2003)

- (71) Applicant (for all designated States except US): HAR-MAN BECKER AUTOMOTIVE SYSTEMS GMBH [DE/DE]; Becker-Goering-Str 16, 76307 Karlsbad (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): HENNECKE, Marcus [DE/DE]; Ehrensteiner Feld 7, 89075 Ulm (DE).

- (74) Agent: WEIGELT, Udo; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Maximilianstrasse 58, 80538 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD FOR CONTROLLING A SPEECH DIALOG SYSTEM AND SPEECH DIALOG SYSTEM



(57) Abstract: The invention is directed to a method for controlling a speech dialog system, wherein an acoustic output signal is provided in response to an acoustic input signal, comprising the steps of receiving a further acoustic input signal, processing the further acoustic input signal by a voice activity detector, processing the further acoustic input signal or an output signal corresponding to the further acoustic input signal provided by the voice activity detector by a speech recognition unit to detect speech, if voice activity was detected by the voice activity detector, modifying the acoustic output signal if speech was detected by the speech recognition unit during the output of the output signal.

# 

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.